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APPLICATION NO.	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/712,471 11/12/2003		11/12/2003	Liang A. Xue	H0003450	9413		
128	7590	07/06/2006		EXAMINER			
HONEYWE		ERNATIONAL IN	VORTMAN, ANATOLY				
P O BOX 224		i.b	ART UNIT	PAPER NUMBER			
MORRISTO'	WN, NJ	07962-2245	2835				

DATE MAILED: 07/06/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	n No.	Applicant(s)	w o		
Office Action 6	10/712,47	i	XUE ET AL.				
Office Action S	Examiner		Art Unit				
		Anatoly Vo		2835			
Period for Reply	f this communication ap	opears on the	cover sheet with the (correspondence ad	Idress		
A SHORTENED STATUTOL WHICHEVER IS LONGER, - Extensions of time may be available after SIX (6) MONTHS from the maili - If NO period for reply is specified abo - Failure to reply within the set or exter Any reply received by the Office later earned patent term adjustment. See	FROM THE MAILING I under the provisions of 37 CFR 1 ng date of this communication. we, the maximum statutory perior ded period for reply will, by statuthan three months after the maili	DATE OF THI .136(a). In no ever d will apply and will tte, cause the applic	S COMMUNICATION It, however, may a reply be tine expire SIX (6) MONTHS from cation to become ABANDONE	N. mely filed the mailing date of this of the (35 U.S.C. § 133).			
Status							
1) Responsive to commu	ınication(s) filed on <u>25</u>	May 2006 (R	<u>CE)</u> .				
2a) This action is FINAL.	☐ This action is FINAL. 2b) ☐ This action is non-final.						
) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance	with the practice under	Ex parte Qua	ayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposition of Claims							
4) Claim(s) 1,14,17 and	30 is/are pending in the	application.					
	n(s) is/are withdra	awn from con	sideration.				
5) Claim(s) is/are							
6) Claim(s) <u>1,14,17 and</u>							
7) ☐ Claim(s) is/are 8) ☐ Claim(s) are su	<u>-</u>	or election re	quirement				
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Application Papers							
9) The specification is ob	•						
10)⊠ The drawing(s) filed or	•		-	-			
• • • • • • • • • • • • • • • • • • • •	est that any objection to the neet(s) including the corre		_		'ED 1 121(d)		
11) The oath or declaration	•		= : :	•			
Priority under 35 U.S.C. § 119							
12) Acknowledgment is ma	ade of a claim for foreig	n priority und	er 35 U.S.C. § 119(a	a)-(d) or (f).			
a) ☐ All b) ☐ Some * c							
	of the priority docume			Van Ma			
<u> </u>	of the priority documer ertified copies of the pri				l Stage		
— ·	n the International Bure	•		ed in this Nationa	Stage		
* See the attached detail		-		ed.			
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Attachment(s)							
1) Notice of References Cited (PTC			4) Interview Summar				
2) Notice of Draftsperson's Patent I3) Information Disclosure Statemen		8)	Paper No(s)/Mail D Notice of Informal		⁻ O-152)		
Paper No(s)/Mail Date		-,	6) Other:		•		

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on May 25, 2006 has been entered.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1 and 17, are rejected under 35 U.S.C. 102(b) as being anticipated by JP/62-46273 to Ono (of record).

Regarding claims 1 and 17, Ono disclosed (Fig. 1 and 2) a passive thermal switch assembly, comprising: a heat pipe (21) having an evaporator end and a condenser end (inherently), two proximate thermally conductive contacts (second contact is at the end of the heat pipe (21), and a first one is at the ends of the moving strips of member (22)), a shape

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memory alloy (see translated abstract) link (22) coupled to the first thermally conductive contact (see Fig. 2), and adapted to couple to a heat sink (2) (as shown on Fig. 2), wherein the link (22) moves the first thermally conductive contact to at least partially engage the second thermally conductive contact when at least the link (22) is at a predetermined temperature (see Fig. 2).

Regarding claim 17, Ono additionally disclosed a chassis (1), one circuit component (7) mounted within chassis (1), wherein the thermal switch is adjacent to and selectively coupled and decoupled from the chassis (1) (Fig. 2).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 14 and 30, as best understood, are rejected under 35 U.S.C. 103(a) as being unpatentable over Ono taken alone.

Ono teaches all as apply to claims 1 and 17, respectively, but that the shape memory alloy is selected from the group consisting of nickel-titanium, copper-zinc-aluminum, and iron-manganese-silicon. All of the aforementioned materials have been notoriously **known** to have shape memory properties and have been widely used in the cooling and switch arts at the time the invention was made for making various thermally responsive components. Therefore, it would have been obvious to a person of ordinary skill in the relevant art at the time the invention

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was made to select any suitable shape memory alloy material for making switch components of Ono, including as claimed, since it has been held to be within the general skill of a worker in the art to select a **known** material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416.

Response to Arguments

6. Applicant's arguments have been considered but are moot, since claims as amended still read on JP/62-46273 to Ono as shown above.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anatoly Vortman whose telephone number is 571-272-2047. The examiner can normally be reached on Monday-Friday, between 10:00 am and 6:30 pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ms. Lynn Feild can be reached on 571-272-2092. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

A · las

Anatoly Vortman
Primary Examiner
Art Unit 2835

ΑV